



Contact element, Cage Clamp, Front fixing, 1 NC, 24 V 3 A, 220 V 230 V 240 V 6 A

Part no. M22-CK01  
216385  
EL Number 4355767  
(Norway)

General specifications		
Product name		Eaton Moeller® series M22 Accessory Contact element
Part no.		M22-CK01
EAN		4015082163853
Product Length/Depth		38 millimetre
Product height		10 millimetre
Product width		32 millimetre
Product weight		0.01 kilogram
Compliances		CE Marked
Certifications		UL 508 CSA File No.: 012528 UL Category Control No.: NKCR CSA Class No.: 3211-03 CE UL/CSA UL File No.: E29184 IEC/EN 60947-5 CSA-C22.2 No. 14-05 IEC 60947-5 CSA IEC CSA Std. C22.2 No. 14-05 CSA Std. C22.2 No. 94-91 EN 60947-5 CSA-C22.2 No. 94-91 UL IEC 60947-5-1
Product Tradename		M22
Product Type		Accessory
Product Sub Type		Contact element
Features & Functions		
Color		Red
Electric connection type		Spring clamp connection
General information		
Degree of protection		IP20
Lifespan, electrical		1,600,000 Operations (at 230 V, 0.5 A) 700,000 Operations (at 230 V, AC-15, 3 A) 1,200,000 Operations (at 12 V, DC-13, 2.8 A) 1,000,000 Operations (at 230 V, AC-15, 1 A)
Lifespan, mechanical		5,000,000 Operations
Model		Top mounting and integrable
Mounting method		Front fastening
Operating frequency		3600 Operations/h
Overvoltage category		III
Pollution degree		3
Product category		Accessories
Rated impulse withstand voltage (Uimp)		6000 V AC
Type		Auxiliary contact
Used with		Can be used with NZM4 circuit-breaker: up to two standard auxiliary contacts can be clipped into the circuit-breaker. Can be used with NZM3, 4 circuit-breaker: up to three standard auxiliary contacts can be clipped into the circuit-breaker. Can be used with NZM1, 2, 3 circuit-breaker: a trip-indicating auxiliary contact can be clipped into the circuit-breaker. Can be used with NZM1 circuit-breaker: a standard auxiliary contact can be clipped into the circuit-breaker. Can be used with NZM2 size circuit-breaker: a standard auxiliary contact can be clipped into the circuit-breaker.
Ambient conditions, mechanical		

Shock resistance		30 g, Mechanical, according to IEC/EN 60068-2-27, Shock duration 11 ms
<b>Climatic environmental conditions</b>		
Ambient operating temperature - min		-25 °C
Ambient operating temperature - max		70 °C
Ambient storage temperature - min		-25 °C
Ambient storage temperature - max		85 °C
Climatic proofing		Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
<b>Terminal capacities</b>		
Terminal capacity (flexible with ferrule)		0.5 - 1.5 mm <sup>2</sup>
Terminal capacity (solid)		0.75 - 2.5 mm <sup>2</sup>
Terminal capacity (solid/flexible with ferrule)		2 x (0,5 - 0,75) mm <sup>2</sup> 1 x (0,5 - 1,5) mm <sup>2</sup>
Terminal capacity (stranded)		0.5 - 2.5 mm <sup>2</sup>
<b>Electrical rating</b>		
Conventional thermal current ith of auxiliary contacts (1-pole, open)		4 A
Rated insulation voltage (Ui)		500 V
Rated operational current (Ie) at AC-15, 115 V		6 A
Rated operational current (Ie) at AC-15, 220 V, 230 V, 240 V		6 A
Rated operational current (Ie) at AC-15, 380 V, 400 V, 415 V		4 A
Rated operational current (Ie) at AC-15, 500 V		2 A
Rated operational current (Ie) at DC-13, 24 V		3 A
Rated operational current (Ie) at DC-13, 42 V		1.7 A
Rated operational current (Ie) at DC-13, 60 V		1.2 A
Rated operational current (Ie) at DC-13, 110 V		0.6 A
Rated operational current (Ie) at DC-13, 220 V, 230 V		0.3 A
Rated operational current (Ie) at DC-13, 500 V		0.1 A
Rated operational voltage (Ue) at AC - max		500 V
Rated operational voltage (Ue) at DC - max		220 V
<b>Short-circuit rating</b>		
Rated conditional short-circuit current (Iq)		1 kA
Short-circuit protection		PKZM0-10/FAZ-B6/1, Contacts, Max. short-circuit protective device, Fuseless
Short-circuit protection rating		Max. 10 A gG/gL, Fuse, Contacts Max. 10 A gG/gL, Fuse, Auxiliary contacts
<b>Communication</b>		
Connection to SmartWire-DT		No
Connection type		Cage Clamp Front fixing Single contact
<b>Actuator</b>		
Actuating force - max		5 N
Actuator travel and actuation force (DIN EN 60947-5-1)		4.8 mm
Knob travel		5.7 mm
<b>Contacts</b>		
Control circuit reliability		1 failure per 10,000,000 switching operations (Statistically determined, at 24 V DC/5 mA) 1 failure per 5,000,000 switching operations (statistically determined, at 5 V DC/1 mA)
Force for positive opening - min		15 N
Number of contacts (change-over contacts)		0
Number of contacts (normally closed contacts)		1
Number of contacts (normally open contacts)		0
<b>Design verification</b>		
Equipment heat dissipation, current-dependent Pvid		0 W
Heat dissipation capacity Pdiss		0 W
Heat dissipation per pole, current-dependent Pvid		0.11 W
Rated operational current for specified heat dissipation (In)		6 A

Static heat dissipation, non-current-dependent Pvs			0 W
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Meets the product standard's requirements.
10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of assemblies			Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances			Meets the product standard's requirements.
10.5 Protection against electric shock			Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
10.8 Connections for external conductors			Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material			Is the panel builder's responsibility.
10.10 Temperature rise			The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating			Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

## Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Auxiliary contact block (EC000041)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ecI@ss13-27-37-13-02 [AKN342018])			
Number of contacts as change-over contact			0
Number of contacts as normally open contact			0
Number of contacts as normally closed contact			1
Number of fault-signal switches			0
Rated operation current I <sub>e</sub> at AC-15, 230 V		A	6
Type of electric connection			Spring clamp connection
Model			Top mounting and integrable
Mounting method			Front fastening
Lamp holder			None